

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Cancelled)
2. (Previously presented) A human antithrombin variant wherein the amino acid at position 78 in the amino acid sequence of natural human antithrombin is replaced with Phe.
3. (Previously presented) A human antithrombin variant wherein the amino acid at position 278 in the amino acid sequence of natural human antithrombin is replaced with the amino acid selected from Ala, Arg, Asn, Gly, His, Tyr, and Val.
4. (Previously presented) A human antithrombin variant wherein the amino acid at position 378 in the amino acid sequence of natural human antithrombin is replaced with the amino acid selected from Lys, Asn, and Val.
5. (Currently Amended) A human antithrombin variant wherein the amino acid at position 380 in the amino acid sequence of natural human antithrombin is replaced with the amino acid selected from Ala, Asp, Gly, His, ~~Ile, Leu~~, Asn, Pro, Thr, and ~~Val~~Arg.
6. (Previously presented) A DNA encoding the human antithrombin variant as claimed in claim 2.

7. (Previously presented) A DNA encoding the human antithrombin variant as claimed in claim 3.

8. (Previously presented) A DNA encoding the human antithrombin variant as claimed in claim 4.

9. (Previously presented) A DNA encoding the human antithrombin variant as claimed in claim 5.